

## **AMENDMENTS TO THE CLAIMS:**

Please amend claims 2 and 3 as shown below.

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of the claims:**

1 (Cancelled)

2 (Currently amended): A method of enhancing the function of normal, damaged, or injured [[excitable]] central nervous system tissue in a mammal, comprising administering peripherally to a mammal in need thereof a peripherally effective, non-toxic effective amount of recombinant erythropoietin for enhancing [[excitable]] central nervous system tissue function, so that the associative learning or memory in/of the mammal is enhanced.

3 (Currently amended): A method of enhancing the function of normal, damaged, or injured [[excitable]] central nervous system tissue in a mammal, comprising administering peripherally to a mammal in need thereof a peripherally effective, non-toxic effective amount of recombinant erythropoietin for enhancing [[excitable]] central nervous system tissue function, so that cognitive function is enhanced.

4 (Previously Presented): A method of enhancing the function of normal, or damaged, or injured excitable tissue in a mammal, comprising administering peripherally to a mammal in need thereof a peripherally effective, non-toxic effective amount of recombinant erythropoietin for enhancing excitable tissue function, wherein said excitable tissue is central nervous system tissue or peripheral nervous system tissue.

5 (Previously Presented): A method of enhancing the function of normal, damaged, or injured excitable tissue in a mammal, comprising administering peripherally to a mammal in need thereof a non-toxic effective amount of recombinant erythropoietin for enhancing excitable tissue function, wherein said administration comprises oral, topical, intraluminal or by inhalation or parenteral administration.

6 (Original): The method of Claim 5 wherein said parenteral administration is intravenous.

7 (Previously Presented): A method of enhancing the function of normal, damaged, or injured excitable tissue in a mammal, comprising administering peripherally to a mammal in need thereof a peripherally effective, non-toxic effective amount of recombinant erythropoietin for enhancing excitable tissue function, wherein said administration is acute or chronic.

8 (Cancelled)

9 (Previously Presented): A method of enhancing the function of normal, damaged, or injured excitable tissue in a mammal, comprising administering peripherally to a mammal in need thereof a peripherally effective, non-toxic effective amount of recombinant erythropoietin for enhancing excitable tissue function, wherein said EPO is administered at a dose greater than the dose necessary to maximally stimulate erythropoiesis.

10-11 (Cancelled)